

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

This draft ecological site description is approved for field use and testing for a one year period beginning MM, YYYY.
Additional information and comments on this site should be sent to the Utah State Range Management Specialist.

STATE: Utah

SITE TYPE: Rangeland

ECOLOGICAL SITE NAME: Semiwet Streambank (Narrowleaf cottonwood)

SITE NUMBER: 034XY019UT

MLRA: 034

Original Site Description: Author: JLB RHF

Date: 07/22/1992

Revised Site Description: Author: JLB RHF

Date: 11/24/1993

Approved by: Title: State Range Cons. Signed: Pat Shaver

Date: 07/25/1994

Ecological Site Definition - A distinctive kind of land, with specific physical characteristics, which differs from other kinds of land in its ability to produce a distinctive kind and amount of vegetation, and in its response to management.

A. PHYSICAL CHARACTERISTICS

(description narrative of this particular site)

1. SOILS

Depth: 60-80 inches

Surface Textures:

Surface Fragments(<=3" % cover, >3" % cover):

Subsurface Textures:

Subsurface Fragments(<=3" % vol, >3" % vol):

Geologic Parent Materials: Alluvium from Sedimentary and Quartzite

Moisture Regime:

Temperature Regime: Mesic

Runoff:

Permeability(min-max):

Drainage Class(min-max): Moderately Well Drained

Water Erosion Hazard:

Wind Erosion Hazard:

Electrical Conductivity (EC in mmhos/cm):

Sodium Adsorption Ration (SAR):

Soil Reaction (1:1 water):

Soil Reaction (0.1 M CaCl₂):

pH Range:

Available Water Capacity (inches):

Major Soils Associated With This Site:

Soil Survey Area: 047

Ashley L, 0-2%

Uver L, 1-4%

Robido FSL, 1-4%

Pherson Variant CB-FSL, 0-2%

Additional information may be found in Section II of the Field Office Technical Guide.

1. Potential Plant Community Description and Ecological Factors

The general view of this area is basin big sagebrush and squawbush shrubs with alkali sacaton, baltic rush on outer edges of braided stream channels. Also narrowleaf cottonwood trees with an understory of narrowleaf cottonwood reproduction, skunkbush sumac, woods rose, an occasional silver buffaloberry, dogbane, goldenrod, baltic rush, western wheatgrass, Kentucky bluegrass, and many annual grasses and forbs. The composition by air-dry weight is approximately 25 percent perennial grasses and grass-like plants, 20 percent forbs, and 45 percent shrubs.

2. Plant Community Composition by Weight and Percentage

Grasses and Grasslike, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Baltic rush	JUBAM		24	40	3	5
Redtop	AGST2		24	40	3	5
Sand dropseed	SPCR		24	40	3	5
Indian ricegrass	ORHY		24	40	3	5
Kentucky bluegrass	POPR	1	8	24	1	3
Mat muhly	MURI	1	8	24	1	3
Clustered field sedge	CAPR5	1	8	24	1	3
Slender wheatgrass	ELTR7	1	8	24	1	3
Inland saltgrass	DISP	1	8	24	1	3
Great basin wildrye	LECI4	1	8	24	1	3
Other perennial grasses	PPGG	1	24	40	3	5
Other annual grasses	AAGG	1	24	40	3	5

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Missouri goldenrod	SOMI2		24	40	3	5
Spreading dogbane	APAN2		24	40	3	5
American licorice	GLLE3		24	40	3	5
Hairy false goldenaster	HEVI4	2	8	24	1	3
Small leaf pussytoes	ANMI3	2	8	24	1	3
Louisiana wormwood	ARLU	2	8	24	1	3
Feathery false solomonsseal	MARAR	2	8	24	1	3
Other perennial forbs	PPFF	2	24	40	3	5
Other annual forbs	AAFF	2	24	40	3	5

Shrubs/Vines, %

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Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Narrowleaf cottonwood	POAN3	0	80	120	10	15
Skunkbush sumac	RHTRT	0	80	120	10	15
Basin big sagebrush	ARTRT	0	40	80	5	10
Silver buffaloberry	SHAR	3	24	40	3	5
Coyote willow	SAEX	3	24	40	3	5
Woods rose	ROWO	3	24	40	3	5
Other shrubs	SSSS	3	40	80	5	10

Trees, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Narrowleaf cottonwood	POAN3		0	40	0	5

3. Plant Community Annual Production

At the highest potential similarity index, this site will produce approximately the following amount of air-dry herbage, expressed as pounds/acre:

	Low	High
Favorable Year	900	1100
Average Year	600	800
Unfavorable Year	300	500

4. Ground Cover and Structure

a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	10	1	5
Forbs (perennial)	5	1	5
Shrubs	30	6	30
Trees	20	40	5
Cryptogams			

b. Other

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Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

As ecological condition deteriorates due to drought and grazing pressure, big sagebrush, cactus, Kentucky bluegrass, annual grasses, and forbs replace the riparian plants. Fire will kill the shrub component and may result in the domination of the site with less desirable plant species.

Plant Communities & Transitional Pathways

(Show a steady state diagram with influences to move from one steady state to another)

6. Plant Growth Curves

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Percent Growth	0	0	5	15	40	20	10	5	5	0	0	0
Name	UT0191											
ID Number	PNC											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

(Give related range sites in MLRA's above and below)

8. Associated Sites Within MLRA

047CY003UT

Semiwet Streambank (Birch-Alder)

034XY014UT

Semimoist Stream Terrace (Basin big sagebrush-Sumac)

034XY021UT

Wet Fresh Streambank (Willow)

9. Correlated Sites in Other States

(Give site name and number)

D. MAJOR USES OF THIS SITE

1. Livestock

a. Site Factors Influencing Management

This site provides forage for cattle in the late spring.

b. Guide to Forage Quality(Plant preference by season)

Species	Oct-Nov	Dec-Feb	Mar-May	Jun-Sep

VG = Very Good G = Good F = Fair P = Poor

2. Wildlife

a. Site Factors Influencing Management

This site provides food and cover for wildlife.

b. List of Potential Species Present

Wildlife using this site include jackrabbit, coyote, mule deer, small mammals, raptors, and birds. During the winter, moose also use the area.

This is a short list of the more common species found. Many other species are present as well and migratory birds are present at times.

c. Guide to Forage Preference of Managed Wildlife Species

Wildlife Species →				
Plant Species ↓	Use	Season	Use	Season

Use - A = preferred or desirable
 B = some use, but less important
 C = little use or used occasionally

Season - F = Fall (Oct-Nov)
 W = Winter (Dec-Feb)
 Sp. = Spring (Mar-May)
 Su. = Summer (Jun-Sep)

3. Recreational Uses

This site provides color and aesthetic appeal in spring, summer, and fall. Recreation activities may include hiking and hunting.

4. Wood Products

Stunted cottonwoods, Firewood

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants
2. Animals

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F. MODAL LOCATION AND DOCUMENTATION

State: Utah County:
 Latitude: Longitude:

Modal Soil: Robido FSL, 1-4% – coarse-loamy, siliceous, mesic Cumulic Haplustolls

Type Location: NW ¼, SE ¼, NW ¼, Section 16, Township 1S, Range 1E. USBM

General Legal Description:

Field Office Site Location

Roosevelt

Data Collected and References

Sampling Source	Number of Records	Range Similarity Index			
		> 76%	51-75%	26-50%	0-25%
NRCS - ECS - 417					
UTAH - RANGE - 2	1				
Permanent Transect Location					

Other References